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UNIVERSITY OF DURHAM

مركز دراسات الشرق الأوسط

والدراسات الإسلامية

CENTRE FOR MIDDLE EASTERN
AND ISLAMIC STUDIES

FISHERIES OF THE ARABIAN SUB-CONTINENT
A BIBLIOGRAPHIC STUDY
1809-1983

by

Dr. Mohammad Ata-Ur-Rahim



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PREFACE

The Arabian peninsula is a desert land covered by shifting sands with high barren and dry plateaux. This peninsula is divided politically into several states: Oman, Saudi Arabia, Kuwait, Qatar, United Arab Emirates, Yemen Arab Republic, People's Democratic Republic of Yemen and Bahrain. Rainfall is less than five inches per year, consisting on average of one monsoon in the winter and two in the summer. Inland water resources are extremely poor. Underdeveloped countries in general, and those situated in the arid zone in particular, have been relying more and more on marine resources for protein requirements, as fish is a rich source of protein. The agriculture departments of the countries of the Arabian sub-continent have been undergoing rapid expansion and improvement, yet their coastlines still remain virtually unexplored. In order to utilize fishery resources scientifically and achieve fruitful results, systematic studies of the region's aquatic resources are essential.

The compilation of this bibliography was initiated during the course of the third Saudi Biological Conference held at the King Faisal University, Al-Hass in January, 1979, by the participants of the First Saudi Fishery Symposium organized by the Saudi Biological Society and chaired by the author. Other bibliographies have been published which contain some references on fisheries related to the Arabian sub-continent; see for example *Fisheries of the Near East* (FAO, 1966); *The Persian/Arabian Gulf* (Paldi, 1968); *Selected bibliography on Kuwait and the Arabian Gulf States* (Kabeel, Kuwait University, 1969); *Source book on Arabian Gulf States* (Kabeel, Kuwait University, 1975); *Biology of the Arabian Peninsula* (Rahim, M.A. Riyadh, 1979; Saudi Biological Society, Pub.no.3); *A bibliography of the Oceanography of the Arabian Gulf 1859-1978* (De Sylva, D.P. Miami University, 1979) and *Marine environment of the Arabian-Gulf and the Gulf of Oman* (Farmer and Docksey, 1983). Until the present time no authoritative classified bibliographical listing of publications exclusively on the fisheries of the Arabian sub-continent has been available. It is for this reason the author thought that there was room for such a work as this. Articles touching various fields of fishery sciences relating to the sub-continent in question are widely scattered throughout the vast literature of zoology, biology, natural history, oceanography, limnology and general scientific publications. References have been collected from original sources, abstracts, periodicals, bibliographies and pamphlets available in the various libraries of Liverpool, Manchester and London. To make this listing more homogeneous and compact, references on fish, shrimps and pearl oysters are included. For further information on shellfish, and crabs, refer to the *Biology of the Arabian Peninsula*, compiled by the same author and published by the Saudi Biological Society in 1979, and *Bibliography of the Marine and Maritime Environment of the Arabian Gulf and Gulf of Oman* by A.S.D. Farmer and J.E. Docksey (1983).

A total of 471 citations on the fisheries of the Arabian Peninsula has been documented. The purpose of this list is to facilitate research work on Arabian fisheries by both local and foreign workers who would like to seek detailed and systematic information on work already done. No claim for completeness is made since it would be impossible for any one individual to cover all the literature on a given subject. Despite the hundreds of manhours expended on this endeavour, inevitably some important works may have been overlooked. Apologies for any such oversights are, therefore, extended in advance to the users of this volume. At the same time it would be appreciated if readers would bring any omissions and inaccuracies to the author's notice, so that they can be rectified and incorporated in any future edition. Bibliographical coverage includes works in the major European languages, with the majority being in English. Latin names and spellings of proper nouns as found in the published works have been retained.

Each entry in this list gives the following information: Author's surname, initials, year of publication, full title, name of the journal, or book, volume number and the page numbers. At the end of the volume there is an alphabetical subject index.

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SERIAL TITLES AND ABBREVIATIONS

Ahlan Wasahlan	Saudi Arabian Air-lines Corporation's Quarterly Magazine, Jiddah
Ahmadi Nat. Hist. Fld. Grp. Newsl.	Ahmadi Natural History and Field Study Group Newsletter, Kuwait
Alicia	Alicia, Athens
Am. Docum. Inst.	American Documentation Institute, Washington
Am. J. Sci.	American Journal of Science, New Haven
Am. Neptune	American Neptune, Mass
Ann. Hydrogr. Mar. Met.	Annalen der Hydrographic und Maritimen Meteorologie, Hamburg
Ann. Idogr. Genova	Annali idrografici, Genova
Ann. Mag. Nat. Hist.	Annals and Magazine of Natural History, London
Ann. Trop. Med. Parasit.	Annals of Tropical Medicine & Parasitology
Anz. Akad. Wiss. Wien	Anzeiger der Kaiserlichen Akademie der Wissenschaften Mathematisch Naturwissenschaftliche Klasse, Vienna
Arab News	An English Daily, Saudi Arabia
Atti. Soc. Ital. Sci. Nat.	Atti della Societa Italiana di Scienze Naturali e del Museo
Atti. Soc. Nat. Mat.	Atti della Societa dei Naturalisti e Matematici, Modena
Australian J. Mar. Freshw. Res.	Australian Journal of Marine and Freshwater Research, Melbourne
Blackwood's Mag.	Blackwood's Magazine, Edinburgh
Boll. Inform. Econ. Roma	Bollettino di Informazione per Economia, Roma
Boll. Musei Zool. Anat. Comp. R. Univ. Torino	Bollettino dei Musei di Zoologia e di Anatomia Comparata della Reale Universita di Torino, Turin
Boll. Pesca Pesci. Idrobiol.	Bollettino di Pesca Piscicoltura e Idrobiologia, Roma
Bull. Am. Met. Soc.	Bulletin of the American Meteorological Society, Lancaster, Pa.
Bull. Am. Mus. Nat. Hist.	Bulletin of American Museum of Natural History, New York

Bull. Basrah Nat. Hist. Mus.	Bulletin of the Basrah Natural History Museum, Basrah
Bull. Biol. Res. Cent. Univ. Baghdad	Bulletin of the Biological Research Center, University of Baghdad
Bull. Br. Mus. Nat. Hist. Zool.	Bulletin of the British Museum of Natural History (ser. zoology), London
Bull. Inst. Oceanogr. Fish	Bulletin of the Institute of Oceanography and Fisheries, Egypt
Bull. Jerusalem Nat. Club	Bulletin of the Jerusalem Naturalists Club, Jerusalem
Bull. Mar. Res. Cent. Jiddah	Bulletin of Marine Research Centre, Jiddah, Saudi Arabia
Bull. Mus. Natn. Hist. Nat.	Bulletin du Museum National d'Histoire Naturelle, Paris
Bull. Mus. Oceanogr. Monaco	Bulletin Musee Oceanographique de Monaco, Monaco
Bull. Mus. Paris	Bulletin du Museum, Paris
Bull. Nat. Inst. Sci. India	Bulletin of the National Institute of Science, India
Bull. Res. Coun. Israel (B)	Bulletin of the Research Council of Israel, Jerusalem, (B) Zoology
Bull. Sch. Or. Af. Stud.	Bulletin of the School of Oriental and African Studies, University of London
Bull. Sea Fish. Res. Sta. Haifa	Bulletin Sea Fisheries Research Station, Haifa, Israel
Bull. Soc. Aquic. Pêche	Bulletin de la Societe d'Aquiculture et de Pêche, Paris
Bull. Soc. Belge Geol. Pal. Hydr.	Bulletin de la Societe Belge de Geologie, de Paleontologie et d'Hydrologie, Bruxelles
Bull. Soc. Zool. Fr.	Bulletin Societe Zoologique de France, Paris
Bull. Tokai Fish. Res. Lab.	Bulletin of Tokai Regional Fisheries Research Laboratories, Tsukishima
C.R. Int. Ecol. Congr.	Compte Rendu International Ecological Congress
C.R. Seanc. Acad. Sci. Paris	Compte Rendu Hebdomadaire des Seances de l'Academie de Sciences, Paris

Cent. Mar. Fish. Res. Inst.	Central Marine Fishery Research Institute, Madras
Comm. Fish. Rev.	Commercial Fisheries Review, Washington
Contr. Knowl. Red Sea	Contribution to the Knowledge of the Red Sea, Israel
Copeia	Copeia, New York
Deep-Sea Res.	Deep-Sea Research, Oxford
Denkschr. Akad. Wiss. Wien	Denkschriften K. Akademie der Wissenschaften, Vienna
Discovery	Discovery, Norwich
Earth Plan. Sci. Lett.	Earth and Planetary Sciences Letters, Amsterdam
Econ. Intellig. Unit Lond.	Economist Intelligence Unit, London
Egypte Hist. Nat. Paris	Egypte Histoire Naturelle, Paris
Est. Coast. Mar. Sci.	Estuarine and Coastal Marine Science, London
Exp. Agric.	Experimental Agriculture, Cambridge, UK
Ezheg. Zool. Muz.	Ezhegodnik Zoologicheskogo muzeya, Imperatorskoi Akademii Nauk, Leningrad
FAO Fish. Circ.	Food and Agriculture Organisation Fishery Circular, Rome
FAO Fish. Rep.	Food and Agriculture Organisation, Fishery Report, Rome
Fish. Bull. Haifa	Fishery Bulletin, Haifa
Fish. Leaflet	Fishery Leaflet, U.S. Fish and Wildlife Service, Washington
Fish News Int.	Fishing News International, London
Fish. News Lond.	Fishing News, London
Fld. & Stream	Field and Stream, New York
France Peche	France Peche, Lorient
Geog. J.	Geographical Journal, London
Geog. Rev.	Geographical Review, New York
Geol. Soc. Am. Spec. Pap.	Geological Society of America, Special Paper, U.S.

Hawker Siddley Rev.	Hawker Siddley Review, London
Indian Ann. Mag. Nat. Hist.	Indian Annals and Magazine of Natural History, Bombay
Indian Met. Mem.	Indian Meteorological Department Memoires, Poona
Indian Mus. Res.	Indian Museum Research, Calcutta
IOFC	Indian Ocean Fishery Commission
Israel J. Zool.	Israel Journal of Zoology
Istanb. Univ. Obs. Yazl.	Istanbul University Faculty of Sciences Review, Istanbul
J. Arid Environ.	Journal of Arid Environment
J. Bombay Nat. Hist. Soc.	Journal of the Bombay Natural History Society, Bombay
J. Linn. Soc.	Journal of the Linnacan Society, London
J. Mar. Biol. Ass. India	Journal of Marine Biological Association, India
J. Nat. Hist.	Journal of Natural History, London
J. Pharm. Sci. UAR.	Journal of the Pharmaceutical Science, UAR
J.R. Army Med. Corps	Journal of the Royal Army Medical Corps, London
J. Saudi Arabian Nat. Hist. Soc.	Journal of Saudi Arabian Natural History Society, Jiddah
J. Sediment. Petrol.	Journal of Sedimentary Petrology, Tulsa, Okla.
Kuwait Bull. Mar. Sci.	Kuwait Bulletin of Marine Science
Kuwait Inst. Sci. Res.	Kuwait Institute of Scientific Research, Kuwait
Mar. Biol.	Marine Biology, New York
Mar. Obs.	Marine Observer, London
Mariner's Mirror.	Journal of the Society of Nautical Research, London
MEED	Middle East Economic Digest, London
Mem. Inst. Egypte	Memoires Institut d'Egypte, Cairo
Mem. R. Com. Talassogr. Ital	Memoire, Real Comitato Talassografico Italiano, Venice

Mem. Soc. Zool. Fr.	Memoires de la Societe Zoologique de France, Paris
Mschr. Dt. Ver. Scht.	Monatsschrift des Deutschen Vereins zum-Schutze der Vogelwelt, Zeits
Nat. Geog.	National Geographic Magazine, Washington
Nat. Oceanogr. Data Cent.	National Oceanographic Data Centre, General Series, Washington
Nature	Nature, London
Naut. Mag.	Nautical Magazine, London
New Sci.	New Scientist, London
Notas Inst. Esp. Oceanogr.	Notas y Resumenes Instituto Espanol de Oceanografia, Madrid
Ocean Fish.	Ocean Fishery, San Francisco
Oceanogr. Mar. Biol. Ann. Rev.	Oceanography and Marine Biology, Annual Review, London
Oceanogr. Mar. Biol. Lond.	Oceanography and Marine Biology, London
Oecologia	Oecologia, Berlin
Off. Proc. Gulf Confr.	Official Proceedings of the 1st Gulf Conference, Bahrain
Okeanologiya	Okeanografichnaya Komissiya, Leninskii Prospekt, Moscow
Oman Fauna & Flora Surv.	Oman Fauna and Flora Survey, Muscat
Pakistan J. Sci.	Pakistan Journal of Science, Lahore
Petermanns Geogr. Mitt.	Petermanns Geographische Mittheilungen, Gotha
Phil. Trans. R. Soc.	Philosophical Transactions of the Royal Society, London
Phys. Oceanogr.	Physical Oceanography
Proc. Nat. Inst. Sci. India	Proceedings of the National Institute of Sciences, India
Proc. Pharm. Soc. Egypt	Proceedings of the Pharmaceutical Society of Egypt, Cairo
Proc. Saudi Biol. Confr.	Proceedings of the Saudi Biological Conference
Proc. Zool. Soc. Lond.	Proceedings of the Zoological Society, London

Proc. U.S. Nat. Mus.	Proceedings of the U.S. National Museum, Washington
Prog. Abstr. Saudi Biol. Confr.	Programme and Abstracts of the Third Saudi Biological Conference
Publ. Iraq. Nat. Hist. Mus.	Publications of Iraq Natural History Museum, Baghdad
Publ. Mar. Biol. Sta. Al-Ghardaqa	Publications of the Marine Biological Station, Al-Ghardaqa
Q.J.R. Met. Soc.	Quarterly Journal of the Royal Meteorological Society, London
Rec. Indian Mus.	Records of the Indian Museum, Calcutta
Rep. U.S. Hydrogr. Off	Report of the Hydrographic Office, (U.S. Navy Dept.) Washington
Rev. Fac. Med. Univ. Teheran	Review of the Faculty of Medicine, University of Teheran
S. Afr. J. Sci.	South African Journal of Science, Johannesburg
Sb. Trud. Zool. Muz.	Sbornik Trudov Zoologicheskogo Muzoi, Akademia Nauk Ukrainskoi SSR
Sber. Akad. Wiss. Wien	Sitzungsberichte der K. Akademie der Wissenschaften, Vienna
Sci. Monthly	Scientific Monthly, New York
Sci. Rep. Murray Exped.	Scientific Reports. John Murray Expedition, London
Sedimentology	Sedimentology, Oxford (U.K.)
Senckenberg. Biol.	Senckenbergiana Biologica, Frankfurt
Sudan Notes	Sudan Notes and Records, Khartoum
Symp. Zool. Soc. Lond.	Symposia of the Zoological Society of London
UNDP	United Nations Development Programme
Third Int. Congr. Parasitol. Munich	Third International Parasitological Congress, Munich
Trans. R. Soc. Trop. Med. Hyg.	Transactions of the Royal Society of Tropical Medicine and Hygiene, London
Trans. Tokyo Univ. Fish.	Transactions of Tokyo University of Fisheries, Tokyo
Trans. Zool. Soc. Lond.	Transactions of the Zoological Society, London

Trud. Inst. Zool. Acad. Sci.	Trudy Instituta zoologii, Akademiya, SSR
Trud. Zool. Inst. Akad Leningrad	Trudy Zoologicheskogo Instituta Akademiya Nauk SSR, Leningrad
Vergl. Physiol. Studien	Vergleichende der Physiologischen Studien, Heidelberg
Verh. Int. Ver. Limnol.	Verhandlungen der Internationalen Vereinigung für Limnologie, Stuttgart
Verh. Naturh. Med. Heidelb.	Verhandlungen der Naturhistorisch-medizinischen Vereins zu, Heidelberg
Verh. Zool. Bot. Wien.	Verhandlungen der K.K. Zoologisch-botanischen Gesellschaft Vienna
World Fishing	World Fishing, London
Z. Ges. Erdk. Berl.	Zeitschrift der Gesellschaft für Erdkunde, Berlin
Z. Morph. Okol. Tiere	Zeitschrift für Morphologie und Ökologie der Tiere, Berlin
Zool. Anz.	Zoologischer Anzeiger, Leipzig

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